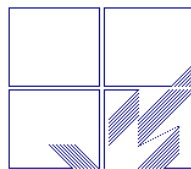


# Natural Resources & Environmental Management



**JPS Associates (P) Ltd.**  
**New Delhi**



## ABOUT JPS ASSOCIATES

JPS Associates is a consulting firm specializes in management, development, agriculture & natural resources management, and engineering. Founded in 1987, the company has amassed a reputation for improving and enhancing performance excellence in some of the most reputed clients and working in development projects directly with and funded by international and bi-lateral development agencies like the World Bank, Asian Development Bank (ADB), United Nations Development Programme (UNDP), United Nations Environment Programme (UNEP), International Labour Organisation (ILO), Global Environment Facility (GEF), European Union (EU), United States Agency for International Development (USAID), Department for International Development (DFID), Japanese International Cooperation Agency (JICA), Canadian International Development Association (CIDA), Norwegian Agency for Development (NORAD), Organisation for Economic Corporation Fund (OECD). Our government clients include National institutions, Central government, state government, local government, public sector undertakings and banks.

We are a team of about 80 employees with diverse range of expertise and experience. The Head Office in New Delhi is the driving force behind the Company activities, centralising the management specialists and design staff and providing overall direction and supervision to the ongoing projects. We also have an extensive network of retained experts, who add strength to our team in sharing commitment to deliver exceptional results for our clients.

We couple our more than 30 years experience, deep knowledge of process, insights, and best practices by implementing about 1,000 projects. These are supported by strong IT/technology, reengineering, analytics and global delivery capabilities to deliver a comprehensive client solution. From strategy through implementation, our hands-on approach has achieved success in delivering quantifiable and value-driven results. Our partnership with our clients ensures a lasting effect which is ultimately their asset and knowledge. Our reputation for being leaders in specialised fields of central and local government has built us a solid clientele in our home base India, and a reach into the international arena.

JPS is an ISO 9001: 2015 certified company. We pursue our quality policy and all business units integrate the policy and further strengthened by quality surveillance and project monitoring team.





# NATURAL RESOURCES & ENVIRONMENTAL MANAGEMENT

## FIELDS OF SPECIALIZATION

### Expertise in Management

- Financial Management and Accounting
- Governance, Public Services and Policy
- Organisation Development & Institutional Strengthening

### Expertise in Agriculture & Natural Resources Management

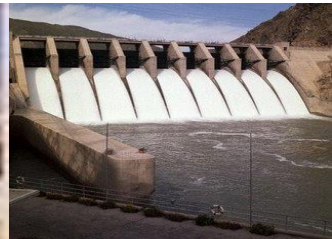
- Natural Resource Management
- Environmental Management
- Agriculture and Agri-Business

### Expertise in Development

- Social Development & Health
- Spatial Development Planning & Tourism

### Expertise in Engineering

- Water & Environment Engineering
- Transportation
- Buildings & Structural
- Energy & Power



**RANGE OF SERVICES:**

- Policy
- Project Planning and Preparation
- Master Planning & Conceptual Designs
- Field Surveys & Investigations
- Pre-Feasibilities and Feasibilities Studies
- Detailed Designs/ Detailed Project Reports
- Financial Management & Accounting Services
- Modelling for PPP, BOT/BOOT projects
- Capacity Development and Institutional Strengthening
- Human Resources Planning
- Manpower Analysis
- Business Planning
- Information Management Services/ Management Information System (MIS)
- Environmental Impact Assessment And Management
- Socio-Economic Studies & Social Impact Assessment
- Community Participation
- Resettlement & Rehabilitation
- Livelihoods and Sustainable Development
- Efficiency Improvement/ Cost Reduction Study/ Profitability Improvement Studies
- Tender Documentation
- Concession Agreement
- Bid Processing
- Procurement Assistance
- Owner's Engineers and Independent Engineers Services
- Project Management / Construction Supervision
- Third Party Quality Control/ Quality Assurance
- Surveys / Impact Assessment Studies
- Monitoring & Evaluation



**OUR STRENGTH:**

- Multidisciplinary: management, development, agriculture & natural resources and engineering company.
- More than 30 years experience and in-depth knowledge of process, insights, and best practices by implementing about 1,000 projects.
- Based in Delhi with strong presence in many provinces of India.
- Well-established inter-division coordination and monitoring system for the execution of integrated projects.
- Experience in many states in India and abroad.
- Broad experience of internationally-funded projects (ADB, the World Bank, UNDP, ILO, DFID, JICA, USAID, CIDA, AFD, NORAD etc.)
- Use of internationally recognized software standards for design, drafting, project management and communication
- Blend of expertise with large pool of international and national talent.
- An ISO 9001: 2008 certified company.
- Well established Quality and Health, Safety and Environment Policies.



## **ABOUT NATURAL RESOURCES ENVIRONMENTAL MANAGEMENT BUSINESS UNIT**

### **NATURAL RESOURCES MANAGEMENT**

Forests play a significant role in biodiversity conservation, harbouring unique and endemic species that are well adapted to extreme ecological conditions, providing essential ecosystem goods (e.g., fodder for livestock, fuel wood, medicines and tradable goods such as resins and gums) and soil and water conservation (e.g., soil formation and conservation, water conservation and quality improvement, regulation of water regimes and micro-climates, reduction of wind velocity, control of wind erosion, and retardation of water and moisture depletion).

JPS have been involved in studies on natural resources, including land, forest, water and wildlife, and environmental conservation. Our team have addressed the problems of deforestation, land and coastal ecosystem degradation, biodiversity depletion, water resource degradation, and other environmental pressures related to food security, poverty and ecosystems. Our team has knowledge about of the local population and their traditions required for assessment and protection of biodiversity.

Our projects employed an advanced multi-level approach when analyzing the factors influencing land use in watersheds. Some prospects include the promotion of environmentally, economically and socially sustainable land uses, indispensable for ensuring sustainable conservation and development of watersheds, through community participation JPS have been involved in studies on natural resources, including land, forest, water and wildlife, and environmental conservation. Our team has addressed the problems of deforestation, land and coastal ecosystem degradation, biodiversity depletion, water resource degradation, and other environmental pressures related to food security, poverty and ecosystems. Our team has knowledge about of the local population and their traditions required for assessment and protection of biodiversity.

#### **NRM SPECIALIZATION:**

- Forestry
- Sustainable Forest Management Systems
- Forest Inventories and Climate Change Impacts
- Agro-forestry
- Land Use Planning and Management
- Sustainable Watershed Management
- Soil and Water Conservation
- Biodiversity Conservation
- Community-Based Natural Resources Management
- Rural Livelihood Programs
- Integrated Land Use Systems
- Land Use Planning and Sustainable Land Management
- Land Degradation Monitoring,
- Desert Afforestation
- Wetlands Management
- Coastal Zone Management
- Disaster Management
- Eco-sensitive planning
- Resource Economics



### **SERVICES:**

- Policy, Programmes and Institutions
- Forest Resources Assessment and Monitoring
- Forest Management Plans
- Afforestation and Reforestation
- Forest Planning and Management
- Ecological Survey
- Ecological Impact Assessment
- Preparation/implementation of Habitat Management Plans
- Wildlife Management Plans
- Eco-Tourism Planning & Management
- Social and Community Forestry
- Interrelation between People and Natural Resources
- Watershed Characterizations
- Integrated Watershed Planning
- GIS Modeling Mapping
- Feasibility Studies
- Project Management
- Monitoring & Evaluation
- Capacity Building & Training

### **ENVIRONMENTAL MANAGEMENT**

Our environmental consultancy service draws on the wide range of disciplines within the company. For each project we assemble a team of specialists to ensure that the necessary experience and particular expertise is available for the collection, analysis and presentation of environmental data. We also offer comprehensive expertise to cover all environmentally sensitive issues. JPS has vast experience in the assessments of the environmental effects and preparation of environmental management plan of wide variety of schemes and development projects. Our Environmental Management Team is also experienced in environmental studies, solid and hazardous wastes management and health and ecological risks studies.

Environmental management and protection will be high on your agenda for organizations involved in the financing, planning, implementation or management of large or small development projects or key utility, transport and service infrastructure. We offer the full range of services that is required, including environmental assessment and management, corporate environmental risk assessment, waste and resources efficiency, sustainability services and catchment management – all in a co-ordinated and integrated way. Our integrated team of Environmental Management, Urban Development Planning and Social Development and Health business units deals with social and environmental problems such as poor urban housing, poor water supply and sanitation, inadequate solid waste and wastewater management, land use conflicts and deteriorating environmental quality at home, workspace, neighbourhood and city. The team also helps our Clients to develop the capabilities and skills to address deteriorating environmental problems in urban areas which threaten urban productivity, quality of life of residents and social cohesion of communities.

### **SPECIALIZATION IN ENVIRONMENTAL MANAGEMENT**

- Strategic Environmental Sanitation
- Environmental Indicators
- Environment Impact Assessment
- Environment and Ecological Management Plans



- Economic Evaluation of Environmental Services
- Surface Water and Ground Water Pollution
- Urban Environmental Policies
- Urban Environmental Quality Management
- Environmental Sanitation Services in Urban and Peri-Urban Areas
- Urban Environmental Planning and Management
- Urban Disaster and Risk Management
- Environmental Emissions from Urban Transport System
- Coastal and Marine Environment
- Hydrocarbon Environment
- Oil Spill Contingency Plans
- Risk Analysis
- Environmental Regulations and Standards
- Environmental Governance Structures
- Environmental Training

**SPECIALIZATION IN ENVIRONMENTAL MANAGEMENT:**

- Strategic Environmental Sanitation
- Environmental Indicators
- Surface Water and Ground Water Pollution
- Freshwater Ecology
- Urban Environment
- Solid & Hazardous Waste Management
- Urban Disaster and Risk Management
- Coastal and Marine Environment
- Hydrocarbon Environment
- Oil Spill Contingency Plans
- Risk Analysis
- Environmental Regulations and Standards
- Environmental Governance Structures
- Environmental Studies & Management
- Health & Safety

**SERVICES:**

- Water Quality Studies
- Non-Point Source Pollution Studies
- Pollution Mitigation Plans
- Air and Noise Modelling
- Urban Environmental Policies
- Environmental Emissions from Urban Transport System
- Urban Environmental Quality Management
- Urban Environmental Planning and Management
- Participation of Communities in Solid Waste
- Coastal Land Use
- Ecologically Sensitive Coastal Ecosystems
- Conservation Of Coastal And Marine Resources
- Short And Long Term Ecosystem Assessment
- Participatory Coastal And Marine Resources Management
- Environmental Impact Assessment
- Economic Evaluation of Environmental Services
- Environment Management Planning
- Environmental Audit and Monitoring
- Capacity Building Environmental Training





**Location:** Tripura, India

**Client:** Tripura Forest Department (TFD), Government of Tripura/ Japan International Cooperation Agency (JICA)

**Funding Agency:** JICA

**Period:** 1st September, 2019 - July 2025 (Ongoing)

**Associate Firm:** N R Management Consultants (NRM), New Delhi & Ides Inc., Tokyo

## RELEVANT EXPERIENCE

### Project Management Consultant for Sustainable Catchment Forest Management (SCATFORM) in Tripura under JICA Loan No.: ID-P275

#### Brief Description of Project:

The Government of Tripura has received a loan from the Japan International Cooperation Agency (JICA) to finance the Project for Sustainable Catchment Forest Management in Tripura (SCATFORM) which is to enhance quality of forest and its management in the targeted catchment, thereby improving forest ecosystem services and meeting the livelihoods needs of forest dependent communities by ensuring sustainable utilization of forest and water resources.

#### The Project comprises of the following components:

Component 1: Sustainable Forest Management

Component 2: Soil and Moisture Conservation

Component 3: Livelihood Development

Component 4: Institutional Strengthening

- The Project is expected to be completed by 2027.

- Location of the Project: Seven districts (West, Khowai, Sepahijala, Gumti, South, Unakoti, and North), including one Wildlife Division (Gumti Wildlife Division)

- Executing Agency: Tripura Forest Department (TFD)

- Implementing Agency: Project Management Unit (PMU) for SCATFORM

#### Objectives of Consulting Services:

The objective of the consulting services is to assist the Project Management Unit of SCATFORM (referred to as PMU) in implementation of the project activities by providing the following services:

(1) Assistance in the management of the project;

(2) Technical assistance in the implementation of the project components/activities in an efficient and effective manner with technology transfer; and

Facilitation of revision and implementation of the Environment and Social Management System Framework (ESMSF) and the Scheduled Tribe and Forest Dependents Plan Framework (STFDPF)

#### Services:

Joint Forest Management (JFM) and Community Development and Gender Mainstreaming Expert is envisaged to assist PMU in the following aspects:

- a) Assist PMU in developing manuals/guidelines related to JFM/micro-planning/institutional development;
- b) Assist PMU, DMU/SDMU/RMU in planning, implementation, O & M, and monitoring of JFMC/EDC related activities especially forestry operations, entry point activities and income generation activities;
- c) Assist PMU to supervise livelihood coordinators, community organizers and field facilitators;
- d) Assist SDMU/RMU in proper micro planning based on the maps, GIS data, baseline data and other information;



- e) Assist PMU, DMU/SDMU/RMU in conducting microplanning, developing business plan and implement IGA activities, and EPA in project villages;
- f) Assist PMU, DMU/SDMU/RMU in monitoring the progress of work by all JFMCs/EDCs and SHGs/ NTFPs collectors;
- g) Assist PMU in organizing exposure visits to other states where the past/current JICA forestry Projects have been undertaken in order to learn lessons from their experience;
- h) Assist PMU, DMU/SDMU/RMU in preparing necessary reports, documents related to project.
- i) Assist PMU to in selection of JFMCs/EDCs, their orientation in microplanning, enterprise/livelihood development;
- j) Undertake field visits to project sites and prepare Back-to-Office report for PMU and prepare brief travel reports and monthly accomplishment reports pertaining to his/ her specialty and submit them to Team Leader; and
- k) Undertaking any other tasks requested by the PMC Team Leader.

**Livelihood and Cluster Development Expert is envisaged to assist PMU in the following aspects:**

- a) Assist PMU/NCE to identify develop strategy for livelihood and cluster development options;
- b) Identify best practices from JICA Phase 1 project and other initiatives within and outside state incorporate the same in the strategies in livelihood and cluster development;
- c) Assist PMU in preparing TOR for diagnostic study for selection of agency, getting study conducted and examining the proposal for cluster development;
- d) Assist PMU/NCE in planning and organizing soft and hard interventions for livelihood and cluster development;
- e) Support NCE/Cluster in coordination with Collection Centre/Mini-CCFC and JFMCs/SHGs;
- f) Analyze risks of cluster operation in each cluster;
- g) Support PMU/NCE in analysis of viability study for making strategy on scaling up Mini-CCFC;
- h) Support JFMCs/SHGs in livelihood operation and management;
- i) Undertake field visits to project sites and prepare Back-to-Office report for PMU and prepare brief travel reports and monthly accomplishment reports pertaining to his/ her specialty and submit them to Team Leader; and
- j) Undertake any other tasks requested by the PMC Team Leader.

**Ecotourism Expert is envisaged to assist PMU in the following aspects:**

- a) Support policy arrangement, promotion and marketing of ecotourism, upgrading/repositioning eco parks (likely three), development of new ecotourism area (likely three);
- b) Redraft the ecotourism policy for Tripura through consultative process;
- c) Formulate the ecotourism development strategy for the state of Tripura and implementation of the strategy;
- d) Support in preparation of TOR for conducting feasibility study on options for developing Ecotourism;



- e) Support PMU in exploring possibility of Public Private Partnership in developing Ecotourism;
- f) Assist TFD in repositioning the eco parks as sites of nature education and ecotourism attractions;
- g) Develop new ecotourism areas in different parts of the state;
- h) Promote and market ecotourism initiatives under the project;
- i) Conduct capacity building on ecotourism among community groups, forest department staff, etc.;
- j) Undertake field visits to project sites and prepare Back-to-Office report for PMU and prepare brief travel reports and monthly accomplishment reports pertaining to his/ her specialty and submit them to Team Leader; and

Undertake any other tasks requested by the PMC Team Leader.

**Consulting Services for Project for Improvement of Himachal Pradesh Forest Ecosystems Management and Livelihoods (Loan No.: ID - P269).**

**Brief Description of Project:**

The Government of Himachal Pradesh has received a loan from the Japan International Cooperation Agency (JICA) to finance the Project for Improvement of Himachal Pradesh Forest Ecosystems Management and Livelihoods which is to enhance sustainable management of ecosystems of forests in the project area.

The Project Management Unit (PMU), Himachal Pradesh Forest Department (HPFD) is the executing Agency for the project covering 16 territorial divisions (Bilaspur, Mandi, Nachan, Suket, Jogindernagar, Kullu, Parbati, Banjar (Seraj), Anni, Lahaul, Kinnaur, Shimla, Theog, Rohru, Chopal, and Rampur) and 2 wildlife divisions (Kullu Wildlife and Spiti Wildlife).

**The Project comprises of the following components:**

- Component 1: Sustainable Forest Ecosystem Management.
- Component 2: Sustainable Biodiversity Management.
- Component 3: Livelihoods Improvement Support.
- Component 4: Institutional Capacity Strengthening.

**Objectives of Consulting Services:**

The objective of the consulting services is to assist the PMU in implementation of the project activities by providing the following services:

- 1) Assistance in the management of the Project;
- 2) Technical assistance in the implementation of the project components/activities in an efficient and effective manner; and Technology Transfer

**Services:**

Co-Team Leader/ Livelihood/Gender Specialist is envisaged to assist PMU in the following aspects:

- Assist the team leader of PMC, and serve as the acting team leader during the off-assignment period of the team leader;
- Reviewing manuals/ guidelines and training programmes;
- Facilitate the convergence with other stakeholders;
- Monitor performances of motivators, ward facilitators, and resource organisations;
- Revisit TOR for mobilisers, ward facilitators, and resource organisations;
- Plan overall capacity development activities for community

**Location:** Himachal Pradesh

**Client:** Himachal Pradesh Forest Department

**Funding Agency:** JICA

**Period:** 18th June, 2019 - 17th June, 2022

**Associate Firm:** SOFRECO (Lead Firm), France.



- development and livelihood improvement;
- Review and finalise gender action plan and develop gender training module for the project staffs at all levels;
  - Conducting Gender Monitoring;
  - Organize international training programs;
  - Review and finalize micro plan/ annual plan/ annual convergence plan format and guidelines and manuals as required along with other PMC specialists;
  - Develop objective gender monitoring indicators to be included in the project M&E system;
  - Develop operation manual for Community Development and Livelihood Improvement Fund;
  - Formulate the overall common interest group (CIG)/ SHG IGA development plan;
  - Review and finalise the CIG/ SHG identification/ adoption criteria;
  - Prepare technical materials of small scale IGA activities for information dissemination;
  - Develop a cluster formation plan;
  - Support the cluster level organisations for their operation, including the procurement of necessary equipment, production support, marketing support, accounting, etc.;
  - Facilitate convergence with other livelihood development schemes;
  - Develop overall strategic and action plan for livelihood activities for the Project;
  - Prepare the guidelines and manuals for CIG/SHGs;
  - Developing strategies for CSR;
  - Undertake any other tasks requested by the PMC Team Leader;
  - Undertake field visits to project sites and prepare Back-to-Office report for PMU; and
  - Prepare brief travel reports and monthly accomplishment reports pertaining to his/ her specialty and submit them to the Team Leader.

**Biodiversity Conservation Specialist is envisaged to assist PMU in the following aspects:**

- Design the scientific biodiversity management including implementation plan and budget;
- Design the community based sustainable biodiversity management component adopting SATOYAMA concept including implementation plan and budget;
- Facilitate linkages and collaborations with the State Biodiversity Board and other relevant organisations;
- Facilitate convergence with other programmes and schemes;
- Develop necessary capacity building programs and training materials for the project staffs and community;
- Prepare process documentation;
- Establish network with International Partnership for the SATOYAMA Initiative;
- Prepare TOR for specialized agencies to undertake the biodiversity inventory and ecosystem valuation;
- Design and organizing exposure visits for PMU and other project implementation units; and
- Support Eco-tourism activities;
- Act as a resource person for the training programs;
- Undertake any other tasks requested by the PMC Team Leader;
- Undertake field visits to project sites and prepare Back-to-Office report for PMU; and



**Location:** Himachal Pradesh

**Client:** Himachal Pradesh Power Corporation Ltd.

**Funding Agency:** Himachal Pradesh Power Corporation Ltd.

**Period:** November, 2015  
- February, 2016

**Associate Firm:** Nil

Prepare brief travel reports and monthly accomplishment reports pertaining to his/her specialty and submit them to the Team Leader.

### **Formulation of Catchment Area Treatment Plan in Respect of Surgani - Sundla Hydro Electric Project (48MW) in Distt. Chamba, Himachal Pradesh**

#### **Brief Description of Project:**

Surgani - Sundla HEP is proposed as a run of the river scheme on Suil River, which is a tributary of Ravi River and it is a downstream development of Baira Suil HEP and upstream development of Chamera-I. Tail waters of Baira-Suil HEP will be utilized for power generation in Surgani Sundla HEP. This 48 MW project in River Ravi Basin of H.P. is one of the projects which has been taken up by HPPCL for implementation.

#### **Services Provided:**

1. To formulate detailed Catchment Area Treatment Plan (CATP) for Surgani - Sundla HEP (48 MW) in consonance with guidelines notified by Govt. of Himachal Pradesh vide letter No. FFE-B-F-(2)-72/2004-Pt-II dated 30.09.2009 and which has to be in sync with Comprehensive CAT Plan prepared for entire Ravi River Basin in the year 2014 and approved by Himachal Pradesh Forest Department.
2. The CAT Plan of Surgani - Sundla HEP (48MW) is required to be formulated by following a systematic approach of collecting the base line data, current position of catchment area, causes of degradation and proposing suitable treatment measures to address the cause of degradation in the catchment area which is already collected and analysed in the Comprehensive CAT Plan Study of Ravi river basin.
3. The Catchment Area Treatment Plan depicting major treatment activities and their locations in different Micro Watershed (MWS) in free draining catchment area of SSHEP is to be prepared in the scale of 1:15000.
4. Initially the draft CAT Plan of Surgani-Sundla (HEP (48MW) is required to be submitted for checking of the same by HP Forest Department. The necessary corrections if required are envisaged to be incorporated in the draft CAT Plan by JPS.

The formulation of CAT Plan of Surgani - Sundla Hydro Electric Project (48 MW) is to be a sub-set of the comprehensive CAT Plan of Ravi river basin unless there are compelling reasons to deviate from the provisions of CCP or ground positions has appreciably changed to warrant departure from CCP prescription.

### **Consultant Services for Assisting SPMU in the implementation of Capacity Development for Forest Management and Personnel Training -HP**

#### **Brief Description of Project:**

The Ministry of Environment and Forest (MoEF), Government of India is implementing a JICA assisted project in the country with the aim of capacity development of the frontline forest staff. The Project is of approximately one and a half-year duration and targets improvement in the training infrastructure and training methodologies. As one of the implementing states of this project, the Himachal Pradesh State Forest Department, Government of HP, contracted JPS for assisting the State Project Monitoring Unit (SPMU) for implementation of Capacity Development for Forest Management and Personnel Training Project. The expertise provided by JPS covers Joint Forest Management (JFM); Participatory

**Location:** Himachal Pradesh, India

**Client:** State Project Monitoring Unit (SPMU), Himachal Pradesh Forest Department.

**Funding Agency:** JICA

**Period:** May, 2014 – March, 2019

**Partner:** No



Planning and Assessment including Participatory Rural Appraisal (PRA); Communications Skills and Training Methods.

The Project objective is to improve training environment for frontline staff through infrastructural improvements in the State Forest Training Institutes (SFTIs) and improvement of course curriculum and training methodologies, including building up a pool of Master Trainers and Trainers putting emphasis on JFM, thereby strengthening human resource development for sustainable forest management. The targeted state institutions involved are Forest Training Institute & Rangers College, Sundernagar (Distt. Mandi) and Forest Training Institute, Chail (Distt. Solan)

#### Services:

- A) Assist SFD to finalize training materials for frontline staff in terms of forestry and social science (PRA/JFM) and environmental conservation;
- B) Assist SFD to review and, in case it is necessary, to prepare State JFM Guidelines, viz.
  1. Assist SFD to prepare state JFM handbook and state training guidelines;
  2. Assist SFD to develop and finalize the State Training Improvement Plan;
  3. Assist Master Trainers in SFD to plan State TOT program and to prepare syllabus for TOT;
  4. Assist State Trainers (including Master Trainers) in SFD to prepare training materials for Frontline Staff training based on Himachal Forest Department's "Training Material for Frontline Staff" and other related resources;
  5. Assist State Trainers (including Master Trainers) in SFD to prepare syllabus for Frontline Staff training, making reference to model syllabus prepared by Himachal Forest Department and SAPROF study Team;
  6. Supervise TOT for trainers and training for frontline staff and give advice to improve their implementation of training (on the job training);
  7. Monitor trained frontline staff's practice at the field;
  8. Assist SPMU in organizing workshops on relevant issues and document the proceeding for SPMU; and
  9. To undertake any other work as assigned by SPMU if necessary.

**Location:** Chhattisgarh, India

**Client:** State Project Monitoring Unit (SPMU), Chhattisgarh Forest Department.

**Funding Agency:** JICA

**Period:** Jan. 2014 – March, 2019

**Partner:** No

#### Consultant Services for Assisting SPMU in the implementation of Capacity Development for Forest Management and Personnel Training- Chhattisgarh

#### Brief Description of Project:

The Ministry of Environment and Forest (MoEF), Government of India is implementing a JICA assisted project in the country with the aim of capacity development of the frontline forest staff. The Project is of approximately five-year duration and targets improvement in the training infrastructure and training methodologies. As one of the implementing states of this project, the Chhattisgarh State Forest Department engaged JPS for assisting the State Project Monitoring Unit (SPMU) for the implementation Capacity Development for Forest Management and Personnel Training Project. The expertise expected from JPS is in the field of Forestry including Joint Forest Management (JFM) – Team Leader; Participatory Planning and Assessment including Participatory Rural Appraisal (PRA); Communications skills and Training Methods.



The Project objective is to improve training environment for frontline staff through infrastructural improvements in the State Forest Training Institutes (SFTI) and improvement of course curriculum and training methodologies including building up a pool of Master Trainers and Trainers putting emphasis on JFM, thereby strengthening human resource development for sustainable forest management.

**Services:**

- A) Assist SFD to finalize training materials for frontline staff in terms of forestry and social science (PRA/JFM) and environmental conservation;
- B) Assist SFD to review and, in case it is necessary, to prepare State JFM Guidelines, viz.
  - 1. Assist SFD to prepare state JFM handbook and state training guidelines;
  - 2. Assist SFD to develop and finalize the State Training Improvement Plan;
  - 3. Assist Master Trainers in SFD to plan State TOT program and to prepare syllabus for TOT;
  - 4. Assist State Trainers (including Master Trainers) in SFD to prepare training materials for Frontline Staff training based on Chhattisgarh Forest Department "Training Material for Frontline Staff" and other related resources;
  - 5. Assist State Trainers (including Master Trainers) in SFD to prepare syllabus for Frontline Staff training, making reference to model syllabus prepared by Chhattisgarh Forest Department and SAPROF study Team;
  - 6. Supervise TOT for trainers and training for frontline staff and give advice to improve their implementation of training (on the job training);
  - 7. Monitor trained frontline staff's practice at the field;
  - 8. Assist SPMU in organizing workshops on relevant issues and document the proceeding for SPMU; and
  - 9. To undertake any other work as assigned by SPMU if necessary

**Location:** Nagaland,  
India

**Client:** Member  
Secretary, State Project  
Monitoring Unit (SPMU)  
and Director, State  
Environment and  
Forestry Training  
Institute

**Funding Agency:** JICA

**Period:** Nov. 2013 –  
March, 2019

**Associate Firm:** No

**Consultant Services for Assisting SPMU in the implementation of Capacity Development for Forest Management and Personnel Training- Nagaland**

**Brief Description of Project:**

The Ministry of Environment and Forest (MoEF) Government of India is implementing a JICA assisted Capacity Development for Forest Management and Personnel Training Project in the country with the aim of capacity development of the frontline forest staff. The Project is of approximately 2 years and targets improvement in the training infrastructure and training methodologies. As one of the implementing states of this project, the Nagaland State Forest Department, Government of Nagaland contracted JPS for assisting the State Project Monitoring Unit (SPMU) for the implementation of this project. The expertise envisaged from JPS is in the field of Forestry including Joint Forest Management (JFM), Participatory Planning and Assessment including Participatory Rural Appraisal (PRA); Communications Skills and Training Methods.

The Project objective is to improve training environment for frontline staff through infrastructural improvements in the State Environment and Forest Training Institute (SEFTI) and improvement of course curriculum and training methodologies



including building up a pool of Master Trainers and Trainers putting emphasis on JFM, thereby strengthening human resource development for sustainable forest management.

**Services:**

- A) Assist SFD to finalize training materials for frontline staff in terms of forestry and social science (PRA/JFM) and environmental conservation;
- B) Assist SFD to review and, in case it is necessary, to prepare State JFM Guidelines, viz.
  1. Assist SFD to finalize training materials for frontline staff in terms of forestry and social science (PRA/JFM) and environmental conservation;
  2. Assist SFD to review and to prepare State JFM Guidelines;
  3. Assist SFD to develop and finalize the State Training Improvement Plan;
  4. Assist Master Trainers in SFD to plan State TOT program and to follow up TOT;
  5. Assist State Trainers (including Master Trainers) in SFD to prepare training materials for Frontline Staff training;
  6. Assist State Trainers (including Master Trainers) in SFD to prepare syllabus for Frontline Staff training, making reference to model syllabus prepared by Nagaland Forest Department and SAPROF study Team;
  7. Supervise TOT for trainers and training for frontline staff and give advice to improve their implementation of training (on the job training);
  8. Monitor trained frontline staff's practice at the field;
  9. Assist SPMU in organizing workshops on relevant issues and document the proceeding for SPMU; and
  10. To undertake any other work as assigned by SPMU, if necessary.

**Location:** Andhra Pradesh, India

**Client:** United Nations Development Programme (UNDP).

**Funding Agency:** Global Environment Facility (GEF)

**Period:** Sep.2013 to Feb.2015

**Development of Community based Biodiversity inclusive Plan for Tourism Sector in East Godavari River Estuarine Ecosystem (EGREE), Kakinada, East Godavari District, Andhra Pradesh**

**Brief Description of Project:**

Government of India, with UNDP as the lead agency, funded by Global Environment Facility (GEF), in collaboration with Government of Andhra Pradesh is implementing the project "Mainstreaming Coastal and Marine Biodiversity Conservation into Production Sectors in the East Godavari River Estuarine Ecosystem, Andhra Pradesh, India". The project focuses specifically on removing the key barriers to mainstreaming environmental management considerations into major production activities that are impacting the EGREE region. The UNDP-GEF intervention aims to address this through the following outcomes: (1) Cross-sectoral planning framework that mainstreams biodiversity conservation; (2) Enhanced capacity of sector institutions for implementing biodiversity management plan; and (3) Sustainable community livelihoods and natural resource use.

One of the enabling activities envisaged in the project is to develop a Biodiversity Friendly Strategic Plan for the tourism Sector in the EGREE Region for integrating biodiversity aspects in a highly consultative process. The Biodiversity Friendly Strategic Plan for the tourism sector in the EGREE Region would be based on relevant key guidelines (global, national and local) available on this matter. The





Plan would aim at addressing tourism sector pressure on the EGREE Region as a best community practicing tool. The Plan should also be able to imbibe good practices all over the globe and recommend suitable good practices for EGREE region for mainstreaming coastal and marine biodiversity into tourism sector. The Plan prepared under this project could be replicated in other coastal States of India where tourism sector is well based.

**Services:**

- Develop a comprehensive Biodiversity Inclusive Tourism Sector Plan that facilitates tourism sector to follow specific biodiversity friendly community based tourism practices in the EGREE region and provide stepwise sequential activities to be adopted for its implementation;
- Conduct national and international literature survey to document good practices on environmental mainstreaming into community based tourism and elicit reasons behind the success (or failure) of such initiatives, while providing replicable suggestions; collate information on situations where a Strategic Plan approach has been evolved
- Provide at least 5 to 10 good practices in Tourism sector for sustainable/eco-friendly practices related to community based tourism in the EGREE Region
- Develop an initial draft of Tourism Plan, which can be integrated into other production sectors' good practices and can contribute towards effective and sustainable environmental management of the EGREE Region
- The Plan should include, inter alia, assessment of carrying capacity of tourists in the EGREE region; effective management/treatment of solid waste; home stays; identification of areas in EGREE region ideal for promotion of sustainable tourism, etc.
- Contribute towards the overarching principles entailed in the landscape level 'Biodiversity Friendly Strategic Plan' of EGREE region.
- Prepare a Tourism Plan after extensive consultations with respective stakeholders at EGREE Region, especially with tourism sector for linking communities based tourism.
- Identify economically viable, cost effective, technologically feasible and pragmatic solutions for the success of the community based tourism plan in the EGREE region
- Provide a roadmap and offer stepwise approaches for implementation of the report
- Support the implementing partner in successful implementation of the Plan post submission of report
- Revise the draft Plan based on comments from the Governing Body of the EGREE Foundation, UNDP and key stakeholders, and place the same before the State Project Steering Committee/Governing Body of EGREE Foundation for approval
- Collaborate with the Forest Department and Tourism Department, Government of Andhra Pradesh, UNDP and other stakeholders and partners as part of this assignment and undertake any other related tasks prescribed by UNDP after mutual consultations
- The Plan should be aligned with, but not limited to, the outputs of Project Document of "Mainstreaming Coastal and Marine Biodiversity into Production Sectors in the East Godavari River Estuarine Ecosystem, Andhra Pradesh".



**Location:** South Sikkim,  
India

**Client:** Project Director,  
Project Management  
Implementation Unit  
(PMIU) South Asia  
Tourism Infrastructure  
Development Project –  
India (SATIDP),  
Department of Tourism &  
Civil Aviation,  
Government of Sikkim

**Funding Agency:** ADB

**Period:** Sept, 2013 –  
Dec., 2014

**Partner:** No

### **Preparation of Operationalization Plan & Curriculum Development for Indian Himalayan Centre for Adventure and Eco-tourism, Chemchey, South Sikkim (ADB Loan No.:2578 – IND)**

#### **Brief Description of Project:**

The development of the Indian Himalayan Centre for Adventure and Eco-Tourism (IHCAE), Chemchey, Sikkim is a key sub-regional human resource development initiative designed to support the development of cultural, natural and adventure tourism products and market through training of trainers, managers, operators, guides, and students in the South Asia sub-region; and training of interested tourists. The Indian Himalayan Centre for Adventure and Eco-Tourism (IHCAE) was envisaged to address the critical need for human resource development not only in Sikkim or in India but also in the South Asia sub-region whose economy and people's livelihood largely depends on nature-based tourism. Sikkim, because of (i) its central location easily accessible from all countries in the sub-region, (ii) being a premier destination for nature and culture-based tourism, and (iii) its good practices on sustainable nature- and culture-based tourism, provides the ideal venue for such a sub-regional institute of excellence. Its central location, easily accessible from all countries in the sub-region, being a premier destination for nature and culture-based tourism, and its good practices on sustainable nature- and culture-based tourism, provides the ideal venue for such a sub regional institute of excellence.

The proposed centre is spread over 17 Acres. The construction began in 2005 and as per the physical master plan, and the centre had received funds to complete phase 1 and 2 of the project from the central Ministry of Tourism, Government of India. The activities completed include guest houses, meditation centre, administrative centre and cafeteria. Approval has been accorded for the mountain interpretation centre, administrative block and students hostels. However, lack of funding for training facilities and equipment delayed operationalization. To bridge this gap, Asian Development Bank, in 2008 agreed for a viability gap funding by including it in the list of sub-projects for loan support for SASEC South Asia Tourism Infrastructure Development Project- India (Loan No. 2578, Project No. 39399-IND) to Department of Tourism, Government of Sikkim (DoT&CAv, GoS). For complete operationalization and implementation of the sub-project goals of IHCAE, Chemchey, the PMIU appointed JPS to assist in executing the said project activity. The project activity comprises of two parts:

- Part A for preparing Operationalization Plan for IHCAE.
- Part B for outlaying & designing the Curriculum Development Plan for IHCAE

The key objective of this consulting assignment is, thus, to outline an operationalization and overall institutional management plan as well as design and outlay proposals for curriculum/course content for the training and educational programme to be carried out in the future- for Himalayan Training Institute for Nature & Culture Based Tourism, Chemchey, Sikkim, India. The central objectives will be to achieve the following outlined goals promoted as part of the tourism policy of Sikkim:

- Ensuring balance between tourism related activities and biodiversity protection, promotion and inclusion in highly sensitive alpine areas of Sikkim;



- Strengthening the planning, development and management skills of the public sector officials at the sub-regional, national, regional, state and district level to ensure that nature and culture based tourism products and destinations are developed on a sustainable and inclusive basis;
- Enhance the skills of site managers of protected and other areas in which adventure and ecotourism takes place with improved local community and the private sector stakeholders participation;
- Increase the number and quality of trained adventure and ecotourism professionals and guides;
- Develop the knowledge of the private sector tour operators and local community ecotourism service providers for sustainable development of nature and culture based tourism products and markets;
- To enhance the human resources & skills in this sector; and
- Focus on employment opportunities that Sikkim could offer in the sub-region where such specialized institutes need to be established.

### Services:

#### **Part A: Scope of Services for Preparation of the Operationalization Plan for IHCAE**

The scope of services for preparation of the Operationalisation Plan for IHCAE, Chemchey include the following:

- Identification and preparation of resource pattern mapping of the local and global potentials and opportunities for IHCAE. Prepare SWOT analysis of these resources and target audiences available globally to provide a specific strategic and directional plan for the institute;
- Identification and preparation of deployment plan of the absolute skills, staffs and other resources demanded by the IHCAE;
- Identification and preparation of partnership plan between IHCAE and with Indian, South Asian sub-regional and Global Institutions involved in education, training and research in ecotourism and other related fields for affiliations, accreditations and recognitions-detailing the acquisition procedures, time frames, meeting their requirements and future expectations;
- Assessment of available and potential allocations and preparation of short term and long term business plan for IHCAE;
- Assessment of scenarios and preparation of marketing, outreach and promotion plan for IHCAE;
- Identification, establishment and development of interest based networking linkages and relationship management plan between IHCAE and other communities like institutions, schools, colleges, forums, government departments, NGOs, CBOs, etc.;
- Assessment of the policy framework and legal environment and development institutionalization road map for transition of IHCAE form state owned enterprise to a not-for profit organization within 3-5 years;
- Assessment of the investment, stimulation and development options and preparation of the long term institutional development plan for IHCAE;
- Provide an action plan detailing how to improve (a) potential employability opportunities for the eco-tourism professionals (b) increased learning outcomes of the students/trainers;
- Prepare target plans for meeting the needs institutional expansion, new infrastructural needs, training needs, human resources, equipment and other hardware and software needs; and



- Propose methods for improving IHCAE's interactions with tourism industry and help establish it as a premiere institute for research and consultation in eco-tourism and biodiversity in the Asia sub-region.

#### **Part B: Scope of Services for Curriculum Development Plan for IHCAE**

The scope of services for designing and outlaying of the Curriculum Development Plan for IHCAE, Chemchey include the following:

- Assess the competitive scenario of curriculum and course content of subjects that are preliminary planned by IHCAE or any other appropriate curriculum that may be significant to the IHCAE's vision or Sikkim's tourism prospect scenario- from both national and international learning about eco-tourism/mountaineering/adventure institutes. Research existing similar curriculum available with other similar institutes and prepare performance indicators (through case studies).
- Identify, access and utilize appropriate subject matter experts in the curriculum development process. Meet and hold consultations with the communities actively working in the field of tourism development, nature promotion, cultural promotion, adventure sports, healthcare & wellness, etc. to refine the draft curriculum needs and interests.
- Develop a full curriculum for the topic area, understanding the nuances of the subjects of nature and culture based eco-tourism, adventure & leisure tourism, health & wellness tourism, and overall tourism planning & product development aspects. The curriculum should include the following components: (a) Competencies; (b) Learning objectives; (c) Lesson plans; (d) classification; (e) its operation and functionality; (f) change monitoring; and (g) risks and mitigations. Design contents and decide activities for short-term courses, vocational courses, tailor made courses, seminar, dissertation (thesis) and onsite training modules.
- Outline the faculties, expertise, support staff, hardware, software, training equipments, physical infrastructure, library resources, research and development facilities, logistics, endowment requirements, social support skills, etc. required by the proposed courses.
- Determine the length & verticality of each proposed courses and outline the optimal strength (number of learners/trainers) it can carry. Also design the course content according to semesters.
- Define guidelines for qualitative and quantitative aspects of exams, practical's and professional practice if required by the curriculum's performance assessments methods.
- Design preliminary roasters for master trainers, academicians, teachers, expertise, etc. for in house and outsourced teaching & training.
- Determine the anticipated actual costs (fee) for academic, extra-curricular, supporting facilities, training modules based on per capita fiscal and resource costs investment. Predict and project the recurring, incremental and risk mitigation costs for the proposed academic activities.
- Include alternative approaches to accommodate the varying knowledge levels of potential attendees as well as the innovative and different learning styles that may be present within a group of attendees.
- Develop an academic evaluation framework for each courses and training module and the core course, to be shared by the training participants.
- Develop a preliminary form and structure for training compendium to support a "train the trainer" approach to curriculum use and application for training the guides, trekkers, mountaineer, etc.



- Help IHCAE for formulating enactments, procedures and time-frames for approvals, recognition and consent for inclusion of the proposed curriculum in the mainstream educational system of the State of Sikkim and subsequently with AICTE, UGC, or any other appropriate national techno-professional courses bodies or councils.
- Limited down-streaming in form of the performance monitoring and assessment by the Consultant team members for this assignment is mandated by the Client.

In addition, training of Client staffs/line departments/stakeholders/host communities/institutions is a specific component of this assignment.

**Location:** Jharkhand,  
India

**Client:** State Project  
Management Unit,

Office of the Additional  
Principal Chief  
Conservator of Forests,  
Research and Training,

Department of Forests &  
Environment

**Funding Agency:** JICA

**Period:** March, 2013 -  
2015

**Partner:** No

### Consultant Services for Assisting SPMU in the implementation of Capacity Development for Forest Management and Personnel Training- Jharkhand

#### Brief Description of Project:

The Ministry of Environment and Forest (MoEF), Government of India is implementing a JICA assisted project in the country with the aim of capacity development of the frontline forest staff. The Project is of approximately five-year duration and targets improvement in the training infrastructure and training methodologies. As one of the implementing states of this project, the Jharkhand State Forest Department contracted JPS for assisting the State Project Management Unit (SPMU) for the implementation of this project, i.e., "Capacity Development for Forest Management and Personnel Training Project".

The project objective is to improve training environment for frontline staff through infrastructural improvements in the State Forest Training Institutes (SFTIs) and improvement of course curriculum and training methodologies including building up a pool of Master Trainers and Trainers putting emphasis on JFM, thereby strengthening human resource development for sustainable forest management. The 3 State Forest Training Institutes involved in this assignment are in Jharkhand, viz. Forester Training School, Mahilong & Ranchi, and Forester & Forest Guard Training School, Hazaribagh.

#### Services:

- A) Assist SFD to finalize training materials for frontline staff in terms of forestry and social science (PRA/JFM) and environmental conservation;
- B) Assist SFD to review and, in case it is necessary, to prepare State JFM Guidelines, viz.
  1. Assist SFD to finalize training materials for frontline staff in terms of forestry and social science (PRA/JFM) and environmental conservation;
  2. Assist SFD to review and to prepare State JFM Guidelines;
  3. Assist SFD to develop and finalize the State Training Improvement Plan;
  4. Assist Master Trainers in SFD to plan State TOT program and to follow up TOT;
  5. Assist State Trainers (including Master Trainers) in SFD to prepare training materials for Frontline Staff training;
  6. Assist State Trainers (including Master Trainers) in SFD to prepare syllabus for Frontline Staff training, making reference to model



syllabus prepared by Jharkhand Forest Department and SAPROF study Team;

7. Supervise TOT for trainers and training for frontline staff and give advice to improve their implementation of training (on the job training);
8. Monitor trained frontline staff's practice at the field;
9. Assist SPMU in organizing workshops on relevant issues and document the proceeding for SPMU; and
10. To undertake any other work as assigned by SPMU, if necessary.

**Location:** Madhya Pradesh, India

**Client:** State Project Monitoring Unit (SPMU) of Madhya Pradesh Forest Department, Government of Madhya Pradesh

**Funding Agency:** JICA

**Period:** July, 2012 – March, 2019

**Partner:** No

### **Consultant Services for Assisting SPMU in the implementation of Capacity Development for Forest Management and Personnel Training- Madhya Pradesh**

#### **Brief Description of Project:**

Forestry sector, like any other sector, requires new technologies and management tools to keep pace with the developments at the local, national, regional and global levels. With the shift towards sustainable development and participatory mode of forest management, the forestry has been undergoing fundamental changes in recent times. Forest Department requires improvement in terms of quality and physical achievements, especially considering their specialized needs. Building capacity of the Joint Forest Management Committees (JFMC's) & forestry personnel at forestry training institutions in the country have been taking due care of the above mentioned issues while imparting training to the forestry personnel. However, every training institution has limited capabilities. The resources available to support forestry training are generally insufficient to sustain the requisite expanse and quality of training. It is important that the forestry personnel are provided opportunities to present their views at the international events related to forestry and environment. This will help in capacity building of not only the officer as an individual but also the forestry sector as a whole. The objective of the consulting services is to provide M.P. Forest Department with managerial and technical assistance related to the overall implementation of the project. It will help the M.P. Forest Department in improving training environment for frontline staff through infrastructural improvements in the State Forest Training Institutes (SFTI). Improvement of course curriculum and training methodologies including building up a pool of Master Trainers and Trainers putting emphasis on JFM, thereby strengthening human resource development for sustainable forest management are the other mandates of the proposed assignment.

#### **Services:**

- A) Assist SFD to finalize training materials for frontline staff in terms of forestry and social science (PRA/JFM) and environmental conservation;
- B) Assist SFD to review and, in case it is necessary, to prepare State JFM Guidelines, viz.
  1. Assist SFD to finalize training materials for frontline staff in terms of forestry and social science (PRA/JFM) and environmental conservation;
  2. Assist SFD to review and to prepare State JFM Guidelines;
  3. Assist SFD to develop and finalize the State Training Improvement Plan;
  4. Assist Master Trainers in SFD to plan State TOT program and to follow up TOT;
  5. Assist State Trainers (including Master Trainers) in SFD to prepare training materials for Frontline Staff training;



6. Assist State Trainers (including Master Trainers) in SFD to prepare syllabus for Frontline Staff training, making reference to model syllabus prepared by Madhya Pradesh Forest Department and SAPROF study Team;
7. Supervise TOT for trainers and training for frontline staff and give advice to improve their implementation of training (on the job training);
8. Monitor trained frontline staff's practice at the field;
9. Assist SPMU in organizing workshops on relevant issues and document the proceeding for SPMU; and
10. To undertake any other work as assigned by SPMU, if necessary.

**Location:** Assam, India

**Client:** Assam Forestry Department of India.

**Funding Agency:**  
L'Agence Française de Développement (AFD), Govt. of France.

**Period:** Nov.2011- 30<sup>th</sup> April 2012

**Partner:** SOFRECO, France

### Assam Forestry and Biodiversity Conservation Project

#### Brief Description of Project:

The Assam Forestry and Biodiversity Conservation Project addresses two issues (i) protection of biodiversity and fight against climate change and (ii) development of the North-eastern states, and especially of the state of Assam. The project aims at restoring forest ecosystems in collaboration with the forest dependent communities and enhancing their livelihoods and ensuring conservation and sustainable use of biodiversity. It will focus on strengthening the institutions of the Forest Department of Assam through capacity building, equipment enhancement and legal reforms planning forest management at a strategic level, on promoting sustainable and participatory forest management and on exploring new opportunities for forest and biodiversity goods and services.

#### Services:

The outputs consist of reports and project documents, including, but not limited to:

- Two quarterly reports describing the progress of the Project implementation
- Finalized registration documents for the PMU and the Society (including Memorandum of Association and Rules of Business)
- Lease documents for the PMU premises in Guwahati
- Project organisation documents (including Operation Manual and Financial Management Manual)
- Project procedure documents (including Procurement Procedure Manual, Project Management follow-up and Monitoring & Evaluation database assessment)
- Terms of Reference for design and implementation of a M&E system
- The Procurement Plan
- The chart of accounts
- The budget and timeline of the Project
- Terms of reference and bidding documents for PMU staff recruited through national tenders



**Location:** Delhi,  
Haryana, Bhopal,  
Rajasthan and Tamil  
Nadu, India

**Client:** JICA.

**Funding Agency:** JICA

**Period:** Mar.2011 -  
July.2011

**Partner:** IC Net Ltd.,  
Japan

### Consultancy Services for Evaluation JICA Funded Biodiversity Projects

#### Brief Description of Project:

The project assessed the efficiency of the use of JICA funds for forestry sector in 5 states of India. The broad areas under which the project was executed includes literature survey in the field of forest management and policy and community development, biodiversity management across all the subject States. Field survey on policy and institutions regarding Forest Management, coordination among relevant parties including government organizations and other stakeholders and providing research assistance to the International Consultant Team in tasks including but not limited to collecting documents and existing data, summarizing literature, and arranging appointments with informants were the other focal areas.

#### Services:

- Conducted a literature survey in the field of forest management and policy and community development, biodiversity management across all the subject States
- Conducted a socioeconomic survey on community development in the states of Rajasthan and Tamil Nadu
- Undertook a field survey on policy and institutions regarding forest management, and collect and summarize relevant data and information.
- Coordinated the work among relevant parties including government organizations and other stakeholders.
- Provided research assistance to the International Consultant Team in tasks including but not limited to collecting documents and existing data, summarizing literature, and arranging appointments with informants

**Location:** Chamba  
(HP), India

**Client:** Government of  
HP, Forest Department.

**Funding Agency:**  
Government of HP,  
Forest Department

**Period:** August, 2010 -  
March, 2014

**Partner:** No

### Integrated CAT Plan for the Ravi River Basin in Himachal Pradesh, Government of Himachal Pradesh Forest Department, 2010-2014

#### Brief Description of Project:

The broad objectives for comprehensive Catchment Area treatment outlined are: Checking soil erosion and land degradation by taking up adequate and effective soil conservation measures, both engineering as well as biological, in erosion prone areas, Rehabilitation of degraded forest areas through afforestation and facilitating the Natural regeneration, Rehabilitation of degraded slopes and landslide prone areas, Improvement of land capability and moisture regime in the watersheds, Reduction of siltation of reservoirs, prevention of soil erosion from downstream areas so as to reduce the siltation of streams, path roads and agricultural fields, people's involvement in the treatment and management of catchment, including payment for eco-services to the local communities, Up-gradation of the skills in planning and execution of land development, to improve the pasture land by introducing improved palatable grasses, plantation of wild fruits species and creation of water resources for wildlife management, capacity building of the personnel of HPFD in handling the technology transfer and knowledge sharing. Ultimately the project will benefit the local inhabitants in the entire catchment area and at the same time improve the overall environment.

#### Services:

- Base Map showing delineated watershed, sub watershed and micro watershed
- Contour map
- Elevation map





**Location:** Northern &  
Southern U.P., India

**Client:** U.P. Forest  
Department

**Funding Agency:** JICA

**Period:** Sept, 2009 –  
Aug, 2013

**Partner:** Nippon Koei  
Pvt. Ltd., Japan (Lead)

**Project Cost:** Rs. 517  
Cr

- Slope map
- Land use and Land cover map
- Forest and vegetation map
- Geological and Soil map
- Surface Hydrological map
- Drainage map
- Erosion intensity map with class
- Sediment yield map

### Uttar Pradesh Participatory Forest Management and Poverty Alleviation Project for Uttar Pradesh Forest Department, 2009

#### Brief Description of Project:

The Uttar Pradesh Participatory forest management and poverty alleviation project is under implementation in the 20 forest divisions spread over 14 districts of the state of Uttar Pradesh. The project aims to assist the U.P. Forest Department in the improvement of processes and procedures for project implementation at the State, Division and field levels in pursuing effective and efficient project management, comprehensive plan of operation, in formulating various guidelines, manuals and handbooks, master plan for the comprehensive training program. In addition the PMC will also assist the PMU and DMUs in procuring and supervising the various resource organizations, NGO support organizations and partner NGO, MIS software development contractor, GIS database development and surveying contractor, contractors for socio-economic baseline survey, periodical impact assessment, construction contractors, in establishing an efficient and reliable system for monitoring and evaluation and in operating such systems for progress monitoring and impact assessment.

However, in the northern and southern parts of the state, where the density of forests is high, Scheduled Castes and Scheduled Tribes (indigenous tribes), who have a high incidence of poverty, rely on forests for their livelihood. Their overgrazing and excess harvesting of forest resources are partly responsible for causing degradation of the forests. The state of Uttar Pradesh, which has the country's largest population living in poverty, is striving to implement poverty alleviation projects with the Department of Rural Development playing the key role. However, since most of these projects are concentrated in the central region, support has not reached surrounding forest areas distributed along the state border. Thus JBIC's support for this project, which aims to raise the living standard of the poorest segment of the population as well as to regenerate the forests, is highly necessary and relevant.

#### Project Objectives

- The project aims to restore degraded forests, to augment forest resources and to improve livelihood for and empower the local people who are dependent on forests by promoting sustainable forest
- Management including JFM plantation and community/tribal development, in the state of Uttar Pradesh in north India, thereby promoting regional environmental improvement and poverty alleviation

#### Services:

- Assisting the PMU in pursuing effective and efficient project management.
- Assisting the PMU in formulating a comprehensive plan of operation for the implementation of the Project.
- Assisting the PMU in formulating various guidelines, manuals and handbooks in consultation with PMU.



- Assisting the PMU in securing necessary project Staff members, especially from the placement agencies.
- Preparation of a master plan for the comprehensive training program and supporting PMU and DMUs in organizing various training for the project staff in consultation with PMU.
- Assisting the PMU and DMUs in procuring and supervising the various resource organizations, NGO support organizations and partner NGO, MIS software development contractor, GIS database development and surveying contractor, contractors for socio-economic baseline survey, periodical impact assessment, construction contractors and other contractors that may be needed.
- Assisting the PMU and DMUs in procuring necessary equipment.
- Assisting the PMU in establishing an efficient and reliable system for monitoring and evaluation and in operating such systems for progress monitoring and impact assessment.
- Assisting the PMU and DMUs in planning/ budgeting annually based on the appropriate estimation of work quantity at the field level and unit costs.
- Assisting the PMU in fund management and smooth communication between the PMU and the donor agency.
- Assisting the DMUs in entering into agreements with JFMCs / EDCs for project works and help DMUs to monitor the work of JFMCs / EDCs.
- Providing technical assistance to PMU, DMUs, FMUs and various contractors and NGOs in the execution of their works in preparatory works, capacity development, community organizing, micro-planning/annual implementation planning, work quantity estimation, NWFP development, IGA/micro-enterprise development, wildlife conservation and management and phase-out/phase-in works.
- Reviewing, analyzing and recommending improvement in existing related policies and guidelines.
- Assisting the forest department to ensure sustainability of the project.
- Designing the course module, identification of institutions / places and logistic arrangement for international training and study tours.
- Capacity/ knowledge/ skills development through technical and managerial assistance for PMU members as well as field officers who play key roles in project activities.
- Assisting the project authority for organizing national trainings / study tours



**Location:** Una,  
Himachal Pradesh, India

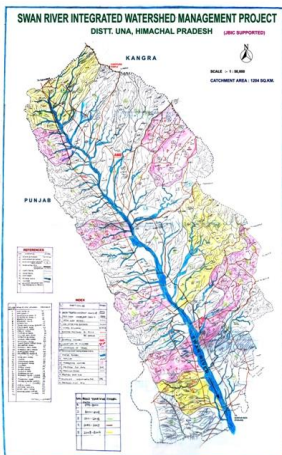
**Client:** H.P. Forest  
Department, Govt. of H.  
P.

**Funding Agency:** JICA

**Period:** April 2008 –  
March 2016

**Partner:** None

**Project Cost:** Rs. 220  
Cr.



## Management Consultancy for Swan River Integrated Watershed Management Project (SRIWMP) for Govt. of Himachal Pradesh

### Brief Description of Project:

The river Swan originates from Joh - Marwari village near Daulatpur Chowk in Amb tehsil in district Una, Himachal Pradesh. The Swan River traverses a total distance of 65 km in Himachal Pradesh. The river Swan has a total catchment of 140,000 ha out of which 120,000 (85.7%) ha lies in the Himachal Pradesh. The river is fed by about 73 tributaries during its traverse in Himachal Pradesh. In district Una, river Swan flows through inter - mountainous valley. The Catchment of river Swan is largely degraded due to significant human interferences. The forests have been cleared to meet the fuelwood, fodder and timber requirements, or for commissioning of various infrastructure projects. This has led to serious drainage problems. It resulted in flash floods leading to heavy floods causing large scale erosion of land, damage to property and crops, disruption of communication, loss of human lives and livestock, etc. Pebbles, gravel, soil, etc. are deposited in the early reaches of the tributaries and fine sediments consisting of sand, etc. flow with the run off and ultimately get deposited on agriculture fields causing heavy damage to land and property.

Swan River Integrated Watershed Management Project being implemented with financial assistance from Japan International Cooperation Agency over a project areas of 61,900 hectares and covering 95 Gram Panchayats in Una district has started yielding good results. The project would benefit 30,000 families, out of which 12,000 families have got benefits. Over 5,500 hectares of land have been protected from floods through afforestation activities and water table has substantially increased in the project area.

The objective of this project is to restore degraded forests, protect agricultural land, and increase agricultural and forestry products by carrying out integrated watershed management, including afforestation, construction of flood control facilities, soil protection and land reclamation, agricultural development, and income generating activities, in the Swan River watershed in the Una district of the State of Himachal Pradesh in northern India, thereby improving living standards of The outcome of the project will lead to greening of hills and valleys, improving water harvesting technology, mitigating fodder scarcity, soil conservation, afforestation, better agricultural yield through improved irrigation and crop diversification.

This project also envisages social and institutional strengthening in the form of imparting awareness, employment generation and women empowerment.

### Services:

#### Advisory Services:

- 2 manuals (Operational & Technical)
- Technical survey (geographical, topographical, soil, land use for selection of target villages.
- Site selection, design, cost estimation and monitoring
- Review of planning and implementation and operation and maintenance of civil structure
- Assisting in the synthesization of project experience and lessons of experience
- Advise for over all project management

#### Services by Task Concept

- Site selection
- Design



- Cost estimation
- Monitoring of civil works for soil and river management



experiences.

From being the sorrow of Una to ushering in a green revolution, taming of Swan River is changing livelihoods where people are now reclaiming the land that once they considered the fast flowing river would someday eventually erode and consume.

Further this consultancy assignment includes preparation of Technical & Operational Manual, site selection, design, cost estimation and monitoring, synthesization of project

**Location:** Sikkim, India

**Client:** Japan International Cooperation Agency (JICA) & Department of Forest, Environment and Wildlife Management Govt. of Sikkim.

**Funding Agency:** JICA

**Period:** June 2009 - September 2009

**Partner:** IC Net Ltd., Japan

**Consultancy Service under the JICA Preparatory Study on the Integrated Project for Sustainable Development of Forest Resources in Sikkim. (Package- 1: Collection & Analysis of Information for Development of Project Plan; Package -2 Design of infrastructure and facilities, cost)**

**Brief Description of Project:**

The objectives of the Project are to improve the living standards of inhabitants in the state of Sikkim and to conserve its biodiversity through entry point activities, eco-tourism, participatory biodiversity conservation, and forest protection and management. The Preparatory Study for the Project was conducted to formulate such a project. The terms of reference of the study are to verify the background and necessity of the project, to propose project details, to propose the project management structure and to examine the Project's effectiveness. The project covered mainly 4 major components, which are; 1. Biodiversity Conservation component, 2. Ecotourism development component, 3. Forest management component, 4. Research, extension, Capacity development and infrastructure development components indicated in 1, 2 & 3.

**Services:**

**Area A: Biodiversity Conservation component**

Management of protected areas, capacity development of JFMC/EDC, protection and propagation of important plants animals, inscription of the Kanchenjunga area on the World Heritage List, and mobilization of GEF fund

**Area B: Ecotourism development component**

Strengthening of ecotourism development plans, management of tourism in protected areas, capacity development of JFMC/EDC for encouraging tourism, training of guides and development of ecotourism infrastructure. Bases on the findings of preparatory study, the consultant prepared a detailed cost estimate for tourism sector development with an approximate cost of 1000 million INR.

**Area C: Forest management component**

Management of forests, reforestation, capacity development of JFMC/EDC, production of non-timber forest products, provision of alternative income sources and microfinance.

**Area D: Research, extension, Capacity development and infrastructure development components on A, B & C**



**Location:** Madhya Pradesh, India

**Client:** UNDP / Forest Department, Govt. of Madhya Pradesh

**Funding Agency:** UNDP

**Period:** July 2007 - October 2007

**Partner:** No

Enhancement of plant and animal research, development of nurseries and propagation facilities establishment of extension and training centers training of government officials, members of JFMC/EDC and NGOs and construction facilities.

**UNDP – GEF Land Degradation Project: Integrated Land use Management to Combat land Degradation and Deforestation in Madhya Pradesh – Participatory Meetings/Planning Workshops, UNDP / Forest Department, Govt. of Madhya Pradesh.**

**Brief Description of Project:**

The objective of the project is to conduct participatory survey/planning workshops for Government Officials, CBOs/NGOs at District level and Communities at village level. The objective is to promote:

Sustainable land management through integration of watershed management, JFM and landscape approaches and

- Promotion of sustainable technologies, such as the integration of bamboo regeneration, livestock breed improvement and control, and the promotion of alternatives sources of fuel-wood (i.e. biogas).

Under this project 20 workshops / FGDs covering 5 Districts at community level, 2 workshops for Govt. Officials and 3 workshops for CBOs/NGOs representatives were conducted.

The out come of the consultancy meetings/workshops would be the preparation of thematic profile of the stakeholders/target groups which includes:

- Review and evaluation of existing strategies, action plans government policies, and thematic assessment reports.
- Investigation of past and present participatory meeting/planning workshops and development initiatives to understand the impact of activities like watershed management, natural resources management- especially for fire control, grazing and pasture land development, rehabilitation of degraded lands, livelihood measures etc.
- Identify and prioritise the key site specific needs of the project at the individual, institutional and systemic level

**Services:**

- Conduct baseline survey covering 1,500 respondents across 4 districts
- Conduct 20 workshops/FGDs i.e. 5 in each district at the community level
- Conduct 2 Workshops for government officials in each of the districts.
- Conduct 3 CBO/NGO representatives' workshops in the selected districts.
- Collating and reviewing the existing relevant documents and interacting with all the stakeholders.
- Articulating clear understanding of the requirement as well as opportunities to forest department
- Review and evaluation of existing strategies, action plans government policies, and thematic assessment reports.
- Investigation of past and present participatory meeting/planning workshops and development initiatives to understand the impact of activities like watershed management, natural resources management- especially for fire control, grazing and pasture land development, rehabilitation of degraded lands, livelihood measures etc.
- Preparing profile of project objectives and needs-related roles and responsibilities of identified sites within the districts.
- Identify and describe the key site specific needs of the project at the individual, institutional and systemic level



**Location:** Punjab, India

**Client:** Punjab Forest Department/ JICA

**Funding Agency:** JICA

**Period:** 2005 - 2006

**Partner:** No

**Location:** Buxa Tiger Reserve, West Bengal, Gir National Park, Gujarat, Nagarhole National Park, Karnataka, Palamau Tiger Reserve, Jharkhand, Pench Tiger Reserve, Madhya Pradesh, Periyar Tiger Reserve, Kerala, Ranthambhore Tiger Reserve, Rajasthan, India

**Client:** Ministry of Environment and Forests, Government of India / WB

**Funding Agency:** The World Bank

**Period:** 2000 - 2004

**Partner:** No

- Recommend key site specific needs and priorities on the basis of comprehensive criteria and indicators for their selection
- Identify the constraints in addressing the prioritized site specific needs
- Identify and describe key constraints of the site and target groups and recommend the minimum or optimum activity inputs required for effective implementation of the project.
- Identify the opportunities for site development to address the constraints
- Analysis of project related needs targeting: Natural Resources Management, Entrepreneurship skills & Livelihood skills

### **Biodiversity Conservation and Management in Punjab for Punjab Forest Department.**

#### **Brief Description of Project:**

Preparation of a comprehensive plan for the management of Biodiversity sectors in Punjab.

#### **Services:**

- Evaluation of terrestrial ecosystems in the Shivalik tracts
- Assessment of aquatic biodiversity (Wetlands) in the three Ramsar sites of Punjab
- Identification of endangered, threatened and endemic species of Punjab
- Interventions for biodiversity management both in-situ and ex-situ
- Strengthening PA management capabilities
- Strengthening/development of infrastructure
- Recommendations for developing strategy and action plan for biodiversity conservation in Punjab as a whole.

At the end of the consultancy a Detailed Project Report was prepared with detailed cost estimation w.r.t. specific components mentioned above.

### **The World Bank funded Intensive Project Performance Review for India Eco Development Project, 2000-2004**

#### **Brief Description of Project:**

The India Eco-development Project was initiated to enhance biodiversity conservation through reducing population pressure on Protected Area (PA's) by implementing a two-legged strategy: (i) Improved PA Management, and (ii) Village Eco-development.

Thus, the strategy was to conserve biodiversity by addressing both the impact of local people on the protected areas and the impact of the protected areas on local people.

#### **Services:**

The broad activities covered under this assignment were:

- Provide advice and technical support for planning, coordinating and implementing project activities.
- Strengthening environmental management including recommendations for the cost-effective conduct of site-specific assessments of project investments prior to execution.
- Preparation of environmental assessments framework to assess environmental impacts on ongoing implementation.
- Preparation of social assessment framework to (a) assess the social impacts of project activities on stakeholders and (b) the effectiveness of



**Location:** All over Vietnam

**Client:** Ministry of Agriculture and Rural Development of the Socialist Republic of Vietnam

**Funding Agency:** The Royal Netherlands Embassy

**Period:** Feb, .2000 - Dec.2000

**Partner:** Haskoning Consulting Engineers, Netherlands

responses to the impact monitoring in mitigating negative impacts in ongoing implementation.

- Help transfer of knowledge programme by organizing workshops in each PA for the forest officials and other stakeholders.
- Provide guidance in review of project documents and plans.

**Forest Protection and Rural Development Project for Ministry of Agriculture and Rural Development, Socialist Republic of Vietnam, Feb. 2000- Dec.2000**

**Brief Description of Project:**

To assist the Vietnam Government in protecting and managing natural forests with high biodiversity. The main objectives are :

- The effective protection of Catien national park and effective protection and management of the remaining natural forests outside the protected areas
- Strengthening the Government's capacity to effectively design, implement and monitor the integration of protected areas conservation with development
- Introduction of new perspective to forest protection and rural development.
- Providing technical skills in community development planning and protected area management
- Establishment and maintenance of independent monitoring and evaluation of project activities

**Services:**

- To assist the project manager
- To set up financial management system
- To set up PMU and PPMUs
- To train project staff.

**Special Assistance for Project Sustainability Concerning Forestation Project in the Aravalli Mountains in Rajasthan, 2003**

**Brief Description of Project:**

The objective of the project was to evaluate the Aravalli Afforestation Project in the Aravalli mountains in Rajasthan with special emphasis on the socio-economic impact on the local communities.

**Services:**

- Community survey encompassing 24 communities from 12 districts in Rajasthan. Factors for community profiling include: economy, society, infrastructure, living, agricultural production, forests and development needs.
- NGO profiling to conduct the survey for social forestry in the states of Karnataka and Tamil Nadu, intended to help VFPMCS in Rajasthan as well as RFD improve their institutional performance and developmental impacts.
- The expectation was that the participants will bring back the experience and knowledge to their own VFPMCS in Rajasthan, inspiring their fellow members of VFPMCS to start discussing ways to improve operations of their own VFPMCS.
- Conduct of a two-day workshop in Jaipur as a focal point of such efforts by members of the twenty-four (24) VFPMCS to improve their operations.
- To facilitate VFPMC members reflecting their operations and formulating new plans, conduct of follow-up activities after the study tour by visiting communities and encouraging people on the spot

**Location:** Rajasthan, India

**Client:** Japan Bank for International Cooperation (JBIC)

**Funding Agency:** JBIC

**Period:** 2003

**Partner:** IC Net Limited



**Location:** Entire India

**Client:** Ministry of Environment & Forests, Government of India

**Funding Agency:** MoEF, Govt. of India

**Period:** Feb.2007 - April 2007

**Partner:** No

### Evaluation of National Parks & Wildlife Sanctuaries under Centrally Sponsored Schemes (CSS) under Ministry of Environment & Forests Feb.2007- April 2007

#### Brief Description of Project:

As part of evaluating the centrally sponsored scheme, "Development of National Parks (N.P.), 7 wildlife Sanctuaries" and 30 National Parks were studied by the 5 Regional Expert Committees constituted by MoEF. The independent evaluator in terms of :-

1. Financial and Physical targets
2. Constraints (upstream and downstream)

#### Services:

- Review of information relating to evaluation of Centrally Sponsored Schemes of MoEF, Govt. of India.
- Review of State and site reports prepared by regional expert committees
- Grading of the parks in 1-10 point scale
- Presentation of findings to the client

**Location:** Jharkhand, India

**Client:** World Bank

**Funding Agency:** World Bank

**Period:** October, 2004 - December, 2004

**Partner:** No

### Jharkhand Natural Resource Management Project October, 2004 - December, 2004

#### Brief Description of Project:

The World Bank funded Jharkhand Natural Resource Management Project was launched with aim to promote a demand driven & participatory approach to forest management, through maximum empowerment of village groups for decision making on the choice of operations to be promoted & the support services to be provided to them by public agencies & NGO's. The Jharkhand forest department was the main implementing agency with financial assistance being provided by International Bank for Reconstruction & Development. The project comprises major activities like enabling environment for PFM, strengthening Community Institutions, Forest Resources development, reviewing procedure of fund flow mechanism and review of legislations and Govt. orders.

#### Services:

- Review the existing procedures of fund flow, budgeting, accounting, internal controls & MIS in the functioning of the forest department starting from the state headquarters to the range offices.
- Review the relevant guidelines (relevant legislations & government orders) for the operation of village level communities particularly operation of bank accounts, procurement procedures, monitoring of work, books & records to be maintained etc. Also review actual implementation.
- Prepare guidelines on community financial management within the framework of existing government guidelines. This would cover:
  - Developing standard formats for agreements/MOU for execution of work through communities.
  - Laying down norms for approval of action plans/micro plans.
  - Laying down norms for preparation & sanction of work estimates.
  - Norms for release of funds & accounting thereof.
  - Operation of bank accounts.
  - Management of funds internally generated or received from other sources.





**Location:** India and Nepal

**Client:** US Agency for International Development (USAID) World Wide Fund for Nature

**Funding Agency:** USAID

**Period:** 1995 - 1997

**Partner:** No

**Location:** All India

**Client:** UNDP/ Ministry of Environment and Forests, GOI.

**Funding Agency:** UNDP

**Period:** 1995

**Partner:** No

- Norms for community procurement
- Developing formats for records & registers to be maintained at the community level etc.
- Train coach/forest department staff & collaborating NGOs on the bank's disbursement & procurement procedures including community procurement
- Develop formats for reporting to the bank on utilization of JSDF grant & PPF funds.
- [Assess financial management skills at the forest department & at the community levels & identifying deficiencies that need to be addressed

**Bio-Conservation Network - South Asia Programme, India & Nepal, 1995 - 1997**

**Brief Description of Project:**

The programme aimed at implementing sustainable bio-conservation initiatives at 5 biodiversity hotspots in India and Nepal through interventions for creating eco-friendly employment opportunities. The project covered following broad activities

**Services:**

- Monitoring and evaluation review of programme activities
- Overall programme management
- Planning and coordination of programme activities through stakeholder participation
- Evaluation of social and economic impacts of programme activities.

**National Forestry Action Plan for MOEF, GoI, 1995**

**Brief Description of Project:**

The study was initiated for long term development of the forestry sector in India. Areas covered were: forest resources, forest policy and legislation, and human resource development. The project envisaged evaluation of agro-forestry programme and determination of problem areas. Based on the above recommendations for enhancing the programme were proposed.

**Services:**

- Evaluation of the agro-forestry programme
- Determination of problem areas
- Recommendations for enhancing the programme.

**Present Position:**

- Head, Social Development, Public Health and Surveys, JPS Associates Pvt. Ltd.
- Team Leader, JPS Associates Pvt. Ltd.
- Senior Consultant, Partners in Development Initiative, New Delhi and Sullivan University USA

**Previous Positions:**

- Senior Research Officer, National Institute of Health and Family Welfare(NIHFW)
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